ITS 413 – QUIZ 2

First name:		Last name:		
ID:		Total Marks:		
			out of 10	
Quest	ion 1 [7 marks]			
a)	Every company with their own System (AS) number.	IP address (or range of addresse	es) has an Auto True	onomous False
b)	b) Border Gateway Protocol is used for routing inside an Autonomous System.			
			True	False
c)	CAT and TOT (two ISPs in Tha	iland) are considered Tier-1 ISPs.	True	False
d)	A peering agreement between l traffic freely.	SPs means the two ISPs have ag	greed to exchar True	nge their False
e)	IEEE 802.11 uses the same MA	C protocol as IEEE 802.3.		
		-	True	False
f)	IP must be implemented in all hosts, routers and switches connected to the Internet.			
			True	False
g)	IP implements a retransmission	scheme to ensure reliability.	True	False

Question 2 [3 marks]

A network has three wireless LAN basic service sets, with two clients in each set. The extended service set is connected via a single Ethernet switch. This switch also connects to a fixed router A. Router A connects via a PDH link to another router B. Router B connects to a host via Ethernet.

- a) Draw the complete network, labelling all nodes (devices) in the network and showing connections between nodes. [2 marks]
- b) If IP is used in this network, how many IP subnets exist. Show them on your diagram. [1 mark]